

CLAIMS

What we claim is:

1. A drive controller for brushless motors, comprising:

a multiplicity of switching means each having

a first switching element connected between a first power supply providing a first potential and an output terminal of said drive controller, and

a second switching element connected between said output terminal and a second power supply providing a second potential;

oscillator means for generating triangular signals;

position signal generation means for generating sinusoidal position detection signals based on the signal detected by a position detector of said brushless motor; and

comparator means for comparing the magnitudes of said triangular signals with said sinusoidal position detection signals to generate PWM signals,

wherein said first switching element and said second switching element of each switching means are turned ON/OFF alternately by said PWM signals.

2. The drive controller for brushless motors according to claim 1, wherein said first and second switching elements of each switching means are MOS transistors.

3. The drive controller for brushless motors according to claim 2, wherein said first switching element is a P-channel type MOS transistor and said second switching element is a N-channel type MOS transistor.

4. The drive controller for brushless motors according to claim 3, wherein each of said first and second switching elements is fed with split PWM signals from said comparator means.
5. The drive controller for brushless motors according to claim 1, wherein the mean potentials of said triangular signals and said sinusoidal position detection signals are set to the same potential.
6. The drive controller for brushless motors according to claim 5, further comprising a constant voltage generation means that generates
 - a first potential;
 - a second potential which is higher than said first potential by a predetermined potential; and
 - a third potential which is lower than the first potential by a predetermined potential, wherein the mean potential of said sinusoidal position detection signals is set to said first potential; and

the mean potential, the maximum potential, and the minimum potential of said triangular signals of said oscillator means are set to said first, second, and third potentials, respectively.